JUL 2 7 2004 FRANKMAN

SEQUENCE LISTING

<110> CORDELL, Barbara
 SCHIMMOLLER, Frauke
 YU-WANG, Liu
 QUON, Diana Hom

<120> MODULATION OF A β LEVELS BY β -SECRETASE BACE2

<130> 219002030710

<140> US 10/749,714

<141> 2003-12-31

<150> US 09/886,143

<151> 2001-06-20

<150>_US_60/215,729_

<151> 2000-06-28

<160> 2

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1863

<212> DNA

<213> Homo sapiens

<400> 1

cccatccctg cccgcagccc cgcgcgccgg ccgagtcgct gagccgcggc tgccggacgg 60 gacgggaccg gctaggctgg gcgcgcgccc ccgggccccg ccgtgggcat gggcgcactg 120 georgggege tgetgetgee tetgetggee cagtggetee tgegegeege ceeggagetg 180 geocegege cetteacget geocetecgg gtggeegegg ceaegaaceg egtagttgeg 240 cccacccgg gacccgggac ccctgccgag cgccacgccg acggcttggc gctcgccctg 300 gageetgeec tggegteece egegggegee gecaacttet tggeeatggt agacaacetg 360 cagggggact ctggccgcgg ctactacctg gagatgctga tcgggacccc cccgcagaag 420. ctacagattc tcgttgacac tggaagcagt aactttgccg tggcaggaac cccgcactcc 480 tacatagaca cgtactttga cacagagagg tctagcacat accgctccaa gggctttgac 540 gtcacagtga agtacacaca aggaagctgg acgggcttcg ttggggaaga cctcgtcacc 600 atccccaaag gcttcaatac ttcttttctt gtcaacattg ccactatttt tgaatcagag 660 aatttetttt tgeetgggat taaatggaat ggaataettg geetagetta tgeeacaett 720 gccaagccat caagttctct ggagaccttc ttcgactccc tggtgacaca agcaaacatc 780 cccaacgttt tctccatgca gatgtgtgga gccggcttgc ccgttgctgg atctgggacc 840 aacggaggta gtcttgtctt gggtggaatt gaaccaagtt tgtataaagg agacatctgg 900 tataccccta ttaaggaaga gtggtactac cagatagaaa ttctgaaatt ggaaattgga 960 ggccaaagcc ttaatctgga ctgcagagag tataacgcag acaaggccat cgtggacagt 1020 ggcaccacgc tgctgcgcct gccccagaag gtgtttgatg cggtggtgga agctgtggcc 1080 cgcgcatctc tgattccaga attctctgat ggtttctgga ctgggtccca gctggcgtgc 1140 tggacgaatt cggaaacacc ttggtcttac ttccctaaaa tctccatcta cctgagagac 1200 gagaactcca gcaggtcatt ccgtatcaca atcctgcctc agctttacat tcagcccatg 1260 atgggggccg gcctgaatta tgaatgttac cgattcggca tttccccatc cacaaatgcg 1320 ctggtgatcg gtgccacggt gatggagggc ttctacgtca tcttcgacag agcccagaag 1380 agggtgggct tcgcagcgag cccctgtgca gaaattgcag gtgctgcagt gtctgaaatt 1440 tccgggcctt tctcaacaga ggatgtagcc agcaactgtg tccccgctca gtctttgagc 1500 gagcccattt tgtggattgt gtcctatgcg ctcatgagcg tctgtggagc catcctcctt 1560 gtettaateg teetgetget getgeegtte eggtgteage gtegeeeceg tgaecetgag 1620 gtcgtcaatg atgagtcctc tctggtcaga catcgctgga aatgaatagc caggcctgac 1680 ctcaagcaac catgaactca gctattaaga aaatcacatt tccagggcag cagccgggat 1740 cgatggtggc gctttctcct gtgcccaccc gtcttcaatc tctgttctgc tcccagatgc 1800 cttctagatt cactgtcttt tgattcttga ttttcaagct ttcaaatcct ccctacttcc 1860

<211> 517 <212> PRT <213> Homo sapiens <400> 2 Met Gly Ala Leu Ala Arg Ala Leu Leu Pro Leu Leu Ala Gln Trp Leu Leu Arg Ala Ala Pro Glu Leu Ala Pro Ala Pro Phe Thr Leu Pro 25 Leu Arg Val Ala Ala Ala Thr Asn Arg Val Val Ala Pro Thr Pro Gly 40 Pro Gly Thr Pro Ala Glu Arg His Ala Asp Gly Leu Ala Leu Ala Leu 55 Glu Pro Ala Leu Ala Ser Pro Ala Gly Ala Ala Asn Phe Leu Ala Met 70 75 Val Asp Asn Leu Gln Gly Asp Ser Gly Arg Gly Tyr Tyr Leu Glu Met 85 90 Leu Ile Gly Thr Pro Pro Gln Lys Leu Gln Ile Leu Val Asp Thr Gly 105 Ser Ser Asn Phe Ala Val Ala Gly Thr Pro His Ser Tyr Ile Asp Thr 120 Tyr Phe Asp Thr Glu Arg Ser Ser Thr Tyr Arg Ser Lys Gly Phe Asp 135 Val Thr Val Lys Tyr Thr Gln Gly Ser Trp Thr Gly Phe Val Gly Glu 155 150 Asp Leu Val Thr Ile Pro Lys Gly Phe Asn Thr Ser Phe Leu Val Asn 165 170 Ile Ala Thr Ile Phe Glu Ser Glu Asn Phe Phe Leu Pro Gly Ile Lys 185 Trp Asn Gly Ile Leu Gly Leu Ala Tyr Ala Thr Leu Ala Lys Pro Ser 200 205 Ser Ser Leu Glu Thr Phe Phe Asp Ser Leu Val Thr Gln Ala Asn Ile 215 220 Pro Asn Val Phe Ser Met Gln Met Gly Ala Gly Leu Pro Val Ala Gly 230 235 Ser Gly Thr Asn Gly Gly Ser Leu Val Leu Gly Gly Ile Glu Pro Ser 245 250 Leu Tyr Lys Gly Asp Ile Trp Tyr Thr Pro Ile Lys Glu Glu Trp Tyr 265 260 Tyr Gln Ile Glu Ile Leu Lys Leu Glu Ile Gly Gly Gln Ser Leu Asn 280 285 Leu Asp Cys Arg Glu Tyr Asn Ala Asp Lys Ala Ile Val Asp Ser Gly 295 300 Thr Thr Leu Leu Arg Leu Pro Gln Lys Val Phe Asp Ala Val Val Glu 310 315 Ala Val Ala Arg Ala Ser Leu Ile Pro Glu Phe Ser Asp Gly Phe Trp 325 330 Thr Gly Ser Gln Leu Ala Cys Trp Thr Asn Ser Glu Thr Pro Trp Ser 345 Tyr Phe Pro Lys Ile Ser Ile Tyr Leu Arg Asp Glu Asn Ser Ser Arg 360 Ser Phe Arg Ile Thr Ile Leu Pro Gln Leu Tyr Ile Gln Pro Met Met 375 Gly Ala Gly Leu Asn Tyr Glu Cys Tyr Arg Phe Gly Ile Ser Pro Ser 395 Thr Asn Ala Leu Val Ile Gly Ala Thr Val Met Glu Gly Phe Tyr Val 410 Ile Phe Asp Arg Ala Gln Lys Arg Val Gly Phe Ala Ala Ser Pro Cys 425

. <210> 2

445

Ala Glu Ile Ala Gly Ala Ala Val Ser Glu Ile Ser Gly Pro Phe Ser 440

Thr Glu Asp Val Ala Ser Asn Cys Val Pro Ala Gln Ser Leu Ser Glu